## **APPENDIX M: METRIC CONVERSIONS**

This appendix provides formulas to convert between inch-pound units and metric units.

With the adoption by the United States of the Harmonized Tariff Schedule (HTS) and its use of metric units, there will be a natural shift to report quantities on invoices in metric units. Where a need to convert exists, the following metric conversion factors should be used. These factors have been taken from the Federal Standard 376A, a Government-wide standard developed through the Government's Interagence Committee on Metric Policy.

The following chart provides the multiplier to be used in converting from inch-pound units to metric units. Where there is a need to convert from metric units to inch-pound units, divide rather than multiply by the factor.

## Metric Conversion

Quantity	From Inch-Pound Units	To Metric Units	Muliply By
Mass	Ton (Long)	T (Metric Ton) (1T = 1,000 kg)	1.016047
	Ton (Short)	T (Metric Ton)	0.90718474
	Lb (Avdo)	Kg	0.45359237
	Oz (Troy)	G	31.10348
Length	Yd	M	0.9144
J	Ft	M	0.3048
	In	Cm	2.54
	In	Mm	25.4
Area	Yd2	M2	0.8361274
	Ft2	M2	0.09290304
	In2	Cm2	6.4516
	In2	Mm2	645
Volume	Yd3	M3	0.7645549
	Bbl (oil)	M3	0.1589873
	(42 Gallons)		0.02831685
	Ft3	M3	
	Ft3	L	28.31685
	Gal (Liq)	L	3.785412
	Quart (Liq)	L	0.9463529
	Pint (Liq)	L	0.4731765
	FI Oz	MI	29.57353
	In3	Cm3	
Frequency	C/S (Formerly Cos. Cycles Per Second)	Hz	1.0
Force	Kip	kN	4.448222
Quantity	From Inch-Pound Units	To Metric Units	Muliply By

## **Automated Export System Trade Interface Requirements (AESTIR)**

## **APPENDIX M: METRIC CONVERSIONS**

Radioactivity	Curie	MBq (Bq-becquerel)	37000.
Stress	Lbl/In2 (formerly PSI)	MPa	0.006894757
	Lbl/ln2 (formerly PSI)	KPa	6.894757
Power	Btu/S	kW	1.055056
	hp (electric)	kW	0.746
	Btu/H	W	0.2930711
Celsius	°F	°C	$t^{\circ}C = (t^{\circ} f 32)/1.8$

*Note:* The following conversion procedure should be followed for beverages, spirits and vinegar classified in Chapter 22 of the *Harmonized Tariff Schedule of the United States Annotated* (HTS): Multiply the number of proof-liters by 0.264172 to obtain proofgallons at 15.5°C (60F). For wine, multply the number of proof-liters by 0.26417. This allows for the calculation of the U.S. excise tax.

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